

**12AC6****REMOTE-CUTOFF PENTODE**

7-PIN MINIATURE TYPE

*For use in automobile radio receivers operating
directly from 6-cell storage-battery systems*

12AC6**GENERAL DATA****Electrical:**

Heater, for Unipotential Cathode:

Voltage range (AC or DC). 10 to 15.9 volts

*This voltage range is on an absolute basis. For long-
est life, it is recommended that the heater be operated
within the voltage range of 11 to 14 volts.*

Current (Approx.)

at 12.6 volts 0.15 amp

Direct Interelectrode Capacitances (Approx.):

	<i>Without External Shield</i>	<i>With External Shield^o</i>	
Grid No.1 to plate.	0.005	0.004	μf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater.	4.3	4.3	μf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater.	5	5	μf

Characteristics, Class A₁ Amplifier:

Heater Voltage. 12.6 volts

Plate Voltage 12.6 volts

Grid No.3 *Connected to cathode at socket*

Grid-No.2 Voltage 12.6 volts

Grid-No.1 Voltage 0 volts

Grid-No.1 Resistor (Bypassed) 2.2 megohms

Plate Resistance (Approx.) 0.5 megohm

Transconductance, Grid No.1 to Plate. 730 μmhos Plate Current 550 μa Grid-No.2 Current 200 μa Grid-No.1 Voltage (Approx.) for
transconductance (μmhos) = 10 -5.2 voltsGrid-No.3 Voltage (Approx.) for
transconductance (μmhos) = 10 -3.7 volts**Mechanical:**

Operating Position. Any

Maximum Overall Length. 2-1/8"

Maximum Seated Length 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip) . . 1-1/2" $\pm$ 3/32"

Diameter. 0.650" to 0.750"

Dimensional Outline *See General Section*

Bulb. T5-1/2

Base. Small-Button Miniature 7-Pin (JEDEC No.E7-1)

^o with external shield JEDEC No.316 connected to cathode.

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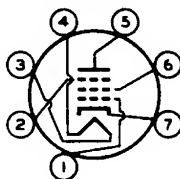


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REMOTE-CUTOFF PENTODE

Basing Designation for BOTTOM VIEW. 7BK

Pin 1 - Grid No.1
Pin 2 - Grid No.3,
Internal
Shield
Pin 3 - Heater



Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid No.2
Pin 7 - Cathode

AMPLIFIER — Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	30 max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE.	30 max.	volts
CATHODE CURRENT.	20 max.	ma
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode .	30 max.	volts
Heater positive with respect to cathode .	30 max.	volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	10 max.	megohms
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